

(FILE 'HOME' ENTERED AT 08:47:33 ON 22 NOV 2004)

FILE 'REGISTRY' ENTERED AT 08:47:56 ON 22 NOV 2004

L1 6361 S RRQRR/SQSP
L2 24044 S (RQRR)+/SQSP
L3 164750 S (RRQ)+/SQSP

FILE 'CAPLUS, MEDLINE' ENTERED AT 08:51:18 ON 22 NOV 2004

FILE 'REGISTRY' ENTERED AT 08:54:13 ON 22 NOV 2004

L4 164750 S L1 OR L3
L5 6361 S RRQRR/SQSP
L6 28 S RRQRRQRR/SQSP
L7 1 S RRQRRQRRQRR/SQSP
L8 6361 S L5 OR L6 OR L7

FILE 'MEDLINE, CAPLUS' ENTERED AT 08:58:36 ON 22 NOV 2004

L9 1710 S L8
L10 11 S INTERNALIZ? (10A)L9

FILE 'STNGUIDE' ENTERED AT 09:02:43 ON 22 NOV 2004

L11 0 S L9 AND (TARGET? OR TRANSPORT? OR CARGO?)

FILE 'MEDLINE, CAPLUS, SCISEARCH, BIOSIS' ENTERED AT 09:06:34 ON 22 NOV 2004

L12 520 S L9 AND (TARGET? OR TRANSPORT? OR CARGO?)
L13 32751 S PEPTIDE# (2A) (COMPLEX? OR CONJUGATE?)
L14 69 S L12 AND L13
L15 69 DUPLICATE REMOVE L14 (0 DUPLICATES REMOVED)
E ROBBINS PAUL D/AU
L16 416 S E3-E4
L17 9 S L16 AND L9

FILE 'STNGUIDE' ENTERED AT 09:16:47 ON 22 NOV 2004

L15 ANSWER 60 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:161153 CAPLUS
DN 132:212698
TI Peptide scaffolds for transfer of molecules into eukaryotic cells
IN Diamond, Scott L.
PA The Trustees of the University of Pennsylvania, USA
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000012114	A1	20000309	WO 1999-US20122	19990901
	W: AU, CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9955909	A1	20000321	AU 1999-55909	19990901
PRAI	US 1998-98791P	P	19980901		
	WO 1999-US20122	W	19990901		
RE.CNT	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L15 ANSWER 61 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:660224 CAPLUS
DN 134:120901
TI Novel Tat-Peptide Chelates for Direct Transduction of Technetium-99m and Rhenium into Human Cells for Imaging and Radiotherapy
AU Polyakov, Valery; Sharma, Vijay; Dahlheimer, Julie L.; Pica, Christina M.; Luker, Gary D.; Piwnica-Worms, David
CS Laboratory of Molecular Radiopharmacology Department of Radiology and Department of Molecular Biology and Pharmacology, Washington University Medical School, St. Louis, MO, 63110D1, USA
SO Bioconjugate Chemistry (2000), 11(6), 762-771
CODEN: BCCHEs; ISSN: 1043-1802
PB American Chemical Society
DT Journal
LA English
RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 62 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:196053 CAPLUS
DN 137:74947
TI Characterization of a class of cationic peptides able to facilitate efficient protein transduction in vitro and in vivo
AU Mi, Zhibao; Mai, Jeffrey; Lu, Xiaoli; Robbins, Paul D.
CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA
SO Molecular Therapy (2000), 2(4), 339-347
CODEN: MTOHCK; ISSN: 1525-0016
PB Academic Press
DT Journal
LA English
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 63 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:819407 CAPLUS
DN 132:61087
TI Membrane-permeant **peptide complexes** for medical

imaging, diagnostics, and pharmaceutical therapy
 IN Piwnica-Worms, David
 PA Washington University, USA
 SO PCT Int. Appl., 65 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9967284	A2	19991229	WO 1999-US13660	19990618
	WO 9967284	A3	20000406		
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	CA 2328457	AA	19991229	CA 1999-2328457	19990618
	AU 9946905	A1	20000110	AU 1999-46905	19990618
	AU 755564	B2	20021212		
	EP 1090032	A2	20010411	EP 1999-930351	19990618
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
	JP 2002518521	T2	20020625	JP 2000-555935	19990618
PRAI	US 1998-90087P	P	19980620		
	WO 1999-US13660	W	19990618		

L15 ANSWER 64 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:789054 CAPLUS
 DN 130:57169
 TI Polymer conjugates for enhancing drug **transport** across biological membranes
 IN Rothbard, Jonathan B.; Wender, Paul A.
 PA The Board of Trustees of the Leland Stanford Junior University, USA
 SO PCT Int. Appl., 50 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9852614	A2	19981126	WO 1998-US10571	19980521
	WO 9852614	A3	19990318		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9875938	A1	19981211	AU 1998-75938	19980521
	AU 734827	B2	20010621		
	EP 975370	A2	20000202	EP 1998-923711	19980521
	EP 975370	B1	20031015		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	GB 2341390	A1	20000315	GB 1999-23841	19980521

GB 2341390	B2	20001108		
BR 9809138	A	20010828	BR 1998-9138	19980521
US 6306993	B1	20011023	US 1998-83259	19980521
JP 2002502376	T2	20020122	JP 1998-550716	19980521
EP 1304122	A2	20030423	EP 2003-75137	19980521
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AT 251913	E	20031115	AT 1998-923711	19980521
ES 2210761	T3	20040701	ES 1998-923711	19980521
US 6495663	B1	20021217	US 1999-396195	19990914
US 2002131965	A1	20020919	US 2001-957161	20010919
US 2003162719	A1	20030828	US 2003-338348	20030107
PRAI US 1997-47345P	P	19970521		
EP 1998-923711	A3	19980521		
US 1998-83259	A1	19980521		
WO 1998-US10571	W	19980521		
US 1999-396195	A1	19990914		

L15 ANSWER 65 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:700365 CAPLUS

DN 130:49665

TI Iron acquisition in plague: modular logic in enzymic biogenesis of
yersiniabactin by Yersinia pestis

AU Gehring, Amy M.; DeMoll, Edward; Fetherston, Jacqueline D.; Mori, Ichiro;
Mayhew, George F.; Blattner, Frederick R.; Walsh, Christopher T.; Perry,
Robert D.

CS Department of Biological Chemistry and Molecular Pharmacology, Harvard
Medical School, Boston, MA, 02115, USA

SO Chemistry & Biology (1998), 5(10), 573-586

CODEN: CBOLE2; ISSN: 1074-5521

PB Current Biology Publications

DT Journal

LA English

RE.CNT 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 66 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:82127 CAPLUS

DN 128:178060

TI Structure-activity relationship study of the plasma membrane translocating
potential of a short peptide from HIV-1 Tat protein

AU Vives, Eric; Granier, Claude; Prevot, Paul; Lebleu, Bernard

CS Inst. Genetique Moleculaire Montpellier, CNRS-UMR, Montpellier, F-34033,
Fr.

SO Letters in Peptide Science (1997), 4(4/5/6), 429-436

CODEN: LPSCEM; ISSN: 0929-5666

PB Kluwer Academic Publishers

DT Journal

LA English

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 67 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:801154 CAPLUS

DN 128:124939

TI The interaction of HIV-1 Tat(32-72) with its **target** RNA: a
fluorescence and nuclear magnetic resonance study

AU Metzger, Armin U.; Bayer, Peter; Willbold, Dieter; Hoffmann, Silke; Frank,
Rainer W.; Goody, Roger S.; Rosch, Paul

CS Lehrstuhl fur Biopolymere, Universitat Bayreuth, Bayreuth, D-95440,
Germany

SO Biochemical and Biophysical Research Communications (1997), 241(1), 31-36

CODEN: BBRCA9; ISSN: 0006-291X
 PB Academic Press
 DT Journal
 LA English
 RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 68 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1993:557933 CAPLUS
 DN 119:157933
 TI Tumor cell retention of antibody Fab fragments is enhanced by an attached
 HIV TAT protein-derived peptide
 AU Anderson, D. C.; Nichols, E.; Manger, R.; Woodle, D.; Barry, M.;
 Fritzberg, A. R.
 CS NeoRx Corp., Seattle, WA, 98119, USA
 SO Biochemical and Biophysical Research Communications (1993), 194(2), 876-84
 CODEN: BBRCA9; ISSN: 0006-291X
 DT Journal
 LA English

L15 ANSWER 69 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1991:400778 CAPLUS
 DN 115:778
 TI Covalently-linked complexes and methods for enhanced cytotoxicity and
 imaging
 IN Anderson, David C.; Morgan, A. Charles; Abrams, Paul G.; Nichols, Everett
 J.; Fritzberg, Alan R.
 PA NeoRx Corp., USA
 SO Eur. Pat. Appl., 23 pp.
 CODEN: EPXXDW
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 359347	A2	19900321	EP 1989-250014	19890814
	EP 359347	A3	19900418		
	EP 359347	B1	19921223		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	US 5135736	A	19920804	US 1988-232337	19880815
	US 5169933	A	19921208	US 1989-390241	19890807
	CA 1334513	A1	19950221	CA 1989-608198	19890811
	JP 02124833	A2	19900514	JP 1989-209992	19890814
	AT 83669	E	19930115	AT 1989-250014	19890814
PRAI	US 1988-232337	A	19880815		
	EP 1989-250014	A	19890814		

=> d his

(FILE 'HOME' ENTERED AT 08:47:33 ON 22 NOV 2004)

FILE 'REGISTRY' ENTERED AT 08:47:56 ON 22 NOV 2004

L1 6361 S RRQRR/SQSP
 L2 24044 S (RQRR)+/SQSP
 L3 164750 S (RRQ)+/SQSP

FILE 'CAPLUS, MEDLINE' ENTERED AT 08:51:18 ON 22 NOV 2004

FILE 'REGISTRY' ENTERED AT 08:54:13 ON 22 NOV 2004

L4 164750 S L1 OR L3
 L5 6361 S RRQRR/SQSP

L6 28 S RRQRRQRR/SQSP
L7 1 S RRQRRQRRQRR/SQSP
L8 6361 S L5 OR L6 OR L7

FILE 'MEDLINE, CAPLUS' ENTERED AT 08:58:36 ON 22 NOV 2004

L9 1710 S L8
L10 11 S INTERNALIZ? (10A)L9

FILE 'STNGUIDE' ENTERED AT 09:02:43 ON 22 NOV 2004

L11 0 S L9 AND (TARGET? OR TRANSPORT? OR CARGO?)

FILE 'MEDLINE, CAPLUS, SCISEARCH, BIOSIS' ENTERED AT 09:06:34 ON 22 NOV 2004

L12 520 S L9 AND (TARGET? OR TRANSPORT? OR CARGO?)
L13 32751 S PEPTIDE# (2A) (COMPLEX? OR CONJUGATE?)
L14 69 S L12 AND L13
L15 69 DUPLICATE REMOVE L14 (0 DUPLICATES REMOVED)

=> e robbins paul d/au

E1 26 ROBBINS PAUL B/AU
E2 1 ROBBINS PAUL BRIAN/AU
E3 412 --> ROBBINS PAUL D/AU
E4 4 ROBBINS PAUL DAVID/AU
E5 11 ROBBINS PAUL E/AU
E6 1 ROBBINS PAUL ERIC/AU
E7 141 ROBBINS PAUL F/AU
E8 1 ROBBINS PAUL J/AU
E9 17 ROBBINS PAUL S/AU
E10 2 ROBBINS PAULA I/AU
E11 1 ROBBINS PD/AU
E12 2 ROBBINS PENELOPE/AU

=> s e3-e4

L16 416 ("ROBBINS PAUL D"/AU OR "ROBBINS PAUL DAVID"/AU)

=> s l16 and l9

'SQSP' IS NOT A VALID FIELD CODE

L17 9 L16 AND L9

=> d l17 1-9

L17 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:203945 CAPLUS

DN 140:231208

TI Polypeptides for increasing mutant CFTR channel activity

IN Robbins, Paul D.; Frizzell, Raymond; Mi, Zhibao; Sun, Fei

PA University of Pittsburgh of the Commonwealth System of Higher Education,
USA

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004020596	A2	20040311	WO 2003-US27110	20030828
	WO 2004020596	A3	20040902		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,

TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004115770 A1 20040617 US 2003-650435 20030828
 PRAI US 2002-407461P P 20020830

L17 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:930859 CAPLUS

DN 140:14513

TI Identification and therapeutic use of peptides that facilitate uptake and cytoplasmic and nuclear transport of proteins, DNA and viruses

IN **Robbins, Paul D.**; Mi, Zhibao; Frizzell, Raymond; Glorioso, Joseph C.; Gambotto, Andrea; Mai, Jeffrey C.

PA USA

SO U.S. Pat. Appl. Publ., 140 pp., Cont.-in-part of U.S. Ser. No. 75,869.
 CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003219826	A1	20031127	US 2003-366493	20030212
	US 2003104622	A1	20030605	US 2002-75869	20020213
PRAI	US 1999-151980P	P	19990901		
	US 2000-188944P	P	20000313		
	US 2000-653182	A2	20000831		
	US 2002-75869	A2	20020213		

L17 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:597743 CAPLUS

DN 140:264017

TI Identification of a synovial fibroblast-specific protein transduction domain for delivery of apoptotic agents to hyperplastic synovium

AU Mi, Zhibao; Lu, Xiaoli; Mai, Jeffrey C.; Ng, Bobby G.; Wang, Guiqiang; Lechman, Eric R.; Watkins, Simon C.; Rabinowich, Hannah; **Robbins, Paul D.**

CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA

SO Molecular Therapy (2003), 8(2), 295-305
 CODEN: MTOHCK; ISSN: 1525-0016

PB Elsevier

DT Journal

LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:435239 CAPLUS

DN 139:32886

TI Identification of peptides that facilitate uptake and cytoplasmic and/or nuclear transport of proteins, DNA and viruses

IN **Robbins, Paul D.**; Mi, Zhibao; Frizzell, Raymond; Glorioso, Joseph C.; Gambotto, Andrea

PA USA

SO U.S. Pat. Appl. Publ., 110 pp., Cont.-in-part of U.S. Ser. No. 653,182.
 CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2003104622	A1	20030605	US 2002-75869	20020213
	WO 2003068942	A2	20030821	WO 2003-US4632	20030212
	WO 2003068942	A3	20040701		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003219826	A1	20031127	US 2003-366493	20030212
PRAI	US 1999-151980P	P	19990901		
	US 2000-188944P	P	20000313		
	US 2000-653182	A2	20000831		
	US 2002-75869	A	20020213		

L17 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:189232 CAPLUS

DN 138:319523

TI Protection of Islets by in Situ Peptide-mediated Transduction of the IκB Kinase Inhibitor Nemo-binding Domain Peptide

AU Rehman, Khaja K.; Bertera, Suzanne; Bottino, Rita; Balamurugan, A. N.; Mai, Jeffrey C.; Mi, Zhibao; Trucco, Massimo; **Robbins, Paul D.**

CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA

SO Journal of Biological Chemistry (2003), 278(11), 9862-9868
CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:646238 CAPLUS

DN 138:120295

TI Efficiency of protein transduction is cell type-dependent and is enhanced by dextran sulfate

AU Mai, Jeffrey C.; Shen, Hongmei; Watkins, Simon C.; Cheng, Tao; **Robbins, Paul D.**

CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA

SO Journal of Biological Chemistry (2002), 277(33), 30208-30218
CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:196053 CAPLUS

DN 137:74947

TI Characterization of a class of cationic peptides able to facilitate efficient protein transduction in vitro and in vivo

AU Mi, Zhibao; Mai, Jeffrey; Lu, Xiaoli; **Robbins, Paul D.**

CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA

SO Molecular Therapy (2000), 2(4), 339-347
 CODEN: MTOHCK; ISSN: 1525-0016
 PB Academic Press
 DT Journal
 LA English
 RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:832771 CAPLUS
 DN 136:144792
 TI A proapoptotic peptide for the treatment of solid tumors
 AU Mai, Jeffrey C.; Mi, Zhibao; Kim, Seon-Hee; Ng, Bobby; **Robbins, Paul D.**
 CS Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA, 15261, USA
 SO Cancer Research (2001), 61(21), 7709-7712
 CODEN: CNREA8; ISSN: 0008-5472
 PB American Association for Cancer Research
 DT Journal
 LA English
 RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:167742 CAPLUS
 DN 134:218672
 TI Identification of peptides which facilitate uptake and transport of protein, DNA and virus into cytoplasm and nuclei of cells
 IN **Robbins, Paul D.**; Mi, Zhibao; Frizzell, Raymond; Glorioso, Joseph C.; Gambotto, Andrea
 PA University of Pittsburgh of the Commonwealth System of Higher Education, USA
 SO PCT Int. Appl., 128 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001015511	A2	20010308	WO 2000-US24034	20000831
	WO 2001015511	A3	20020124		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1210362	A2	20020605	EP 2000-963300	20000831
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	US 1999-151980P	P	19990901		
	US 2000-188944P	P	20000313		
	WO 2000-US24034	W	20000831		

L10 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:493885 CAPLUS

DOCUMENT NUMBER: 141:48512

TITLE: Control of apoptosis by suppressing a selected
apoptosis-related gene using complex of targeting
oligonucleotide and a histone deacetylase or DNA
methylase, and therapeutic uses

INVENTOR(S): Jenkinson, John David; Kanda, Patrick; Vainikka, Satu

PATENT ASSIGNEE(S): Imperial College Innovations Limited, UK

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050885	A2	20040617	WO 2003-GB5321	20031205
WO 2004050885	A3	20041028		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: GB 2002-28363 A 20021205
US 2002-431094P P 20021205

=> d 110 1-11

L10 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:493885 CAPLUS

DN 141:48512

TI Control of apoptosis by suppressing a selected apoptosis-related gene
using complex of targeting oligonucleotide and a histone deacetylase or
DNA methylase, and therapeutic uses

IN Jenkinson, John David; Kanda, Patrick; Vainikka, Satu

PA Imperial College Innovations Limited, UK

SO PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004050885	A2	20040617	WO 2003-GB5321	20031205
WO 2004050885	A3	20041028		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,			

BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

PRAI GB 2002-28363 A 20021205
US 2002-431094P P 20021205

L10 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:522863 CAPLUS

DN 139:272486

TI Quantitative comparison of membrane transduction and endocytosis of
oligopeptides

AU Zaro, Jennica L.; Shen, Wei-Chiang

CS School of Pharmacy, Department of Pharmaceutical Sciences, University of
Southern California, Los Angeles, CA, 90033-9121, USA

SO Biochemical and Biophysical Research Communications (2003), 307(2),
241-247

CODEN: BBRCA9; ISSN: 0006-291X

PB Elsevier Science

DT Journal

LA English

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:505868 CAPLUS

DN 140:12594

TI Photochemical Internalization of a Peptide Nucleic Acid Targeting the
Catalytic Subunit of Human Telomerase

AU Folini, Marco; Berg, Kristian; Millo, Enrico; Villa, Raffaella;
Prasmickaite, Lina; Daidone, Maria Grazia; Benatti, Umberto; Zaffaroni,
Nadia

CS Department of Experimental Oncology, Istituto Nazionale per lo Studio e la
Cura dei Tumori di Milano, Milan, 20133, Italy

SO Cancer Research (2003), 63(13), 3490-3494

CODEN: CNREA8; ISSN: 0008-5472

PB American Association for Cancer Research

DT Journal

LA English

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:435239 CAPLUS

DN 139:32886

TI Identification of peptides that facilitate uptake and cytoplasmic and/or
nuclear transport of proteins, DNA and viruses

IN Robbins, Paul D.; Mi, Zhibao; Frizzell, Raymond; Glorioso, Joseph C.;
Gambotto, Andrea

PA USA

SO U.S. Pat. Appl. Publ., 110 pp., Cont.-in-part of U.S. Ser. No. 653,182.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003104622	A1	20030605	US 2002-75869	20020213
	WO 2003068942	A2	20030821	WO 2003-US4632	20030212
	WO 2003068942	A3	20040701		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003219826 A1 20031127 US 2003-366493 20030212
 PRAI US 1999-151980P P 19990901
 US 2000-188944P P 20000313
 US 2000-653182 A2 20000831
 US 2002-75869 A 20020213

L10 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:320058 CAPLUS

DN 138:332863

TI Suppression of a specific gene using a complex of a targeting
 oligonucleotide and a protein affecting gene expression

IN Hart, Stephen; Ali, Simak; Pufong, Boris Tumi; Porter, Andrew Christopher
 George; Buluwela, Laki; Vainikka, Satu; Jenkinson, John David; Kanda,
 Patrick

PA Gene Expression Technologies Limited, UK

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003033701	A1	20030424	WO 2002-GB4633	20021011
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	GB 2382581	A1	20030604	GB 2002-23605	20021011
	EP 1470226	A1	20041027	EP 2002-801387	20021011
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
PRAI	GB 2001-24391	A	20011011		
	WO 2002-GB4633	W	20021011		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:517584 CAPLUS

DN 137:228160

TI Involvement of sulfated glycosaminoglycans with the internalization of
 basic peptides

AU Suzuki, Tomoki; Futaki, Shiroh; Niwa, Miki; Nakase, Ikuhiko; Tanaka,
 Seigo; Ueda, Kunihiro; Sugiura, Yukio

CS Institute for Chemical Research, Kyoto University, Uji, Kyoto, 611-0011,
 Japan

SO Peptide Science (2002), Volume Date 2001, 38th, 221-224

CODEN: PSCIFQ; ISSN: 1344-7661

PB Japanese Peptide Society

DT Journal

LA English

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:346955 CAPLUS
DN 138:95441
TI TAT-peptide attached to the liposome surface strongly facilitates the
internalization of liposomes at various conditions
AU Torchilin, V.; Rammohan, R.; Weissig, V.; Levchenko, T.
CS Department of Pharmaceutical Sciences, Northeastern University, Boston,
MA, 02115, USA
SO Proceedings - 28th International Symposium on Controlled Release of
Bioactive Materials and 4th Consumer & Diversified Products Conference,
San Diego, CA, United States, June 23-27, 2001 (2001), Volume 1, 486-487
Publisher: Controlled Release Society, Minneapolis, Minn.
CODEN: 69CNY8
DT Conference
LA English
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:100300 CAPLUS
DN 136:276446
TI Possible existence of common internalization mechanisms among
arginine-rich peptides
AU Suzuki, Tomoki; Futaki, Shiroh; Niwa, Miki; Tanaka, Seigo; Ueda, Kunihiro;
Sugiura, Yukio
CS Institute for Chemical Research, Kyoto University, Kyoto, 611-0011, Japan
SO Journal of Biological Chemistry (2002), 277(4), 2437-2443
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:725662 CAPLUS
DN 133:291139
TI Compounds and methods for stimulating β -catenin mediated gene
expression and differentiation
IN Blaschuk, Orest W.; Byers, Stephen; Gour, Barbara J.
PA Adherex Technologies Inc., Can.
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000059939	A1	20001012	WO 2000-US9174	20000404
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

PRAI US 1999-288373 A 19990405
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:278271 CAPLUS
DN 133:146994
TI Macrocyclic Chelators with Paramagnetic Cations Are Internalized into
Mammalian Cells via a HIV-Tat Derived Membrane Translocation Peptide
AU Bhorade, Rajeev; Weissleder, Ralph; Nakakoshi, Tsunenori; Moore, Anna;
Tung, Ching-Hsuan
CS Center for Molecular Imaging Research, Massachusetts General Hospital
Harvard Medical School, Charlestown, MA, 02129, USA
SO Bioconjugate Chemistry (2000), 11(3), 301-305
CODEN: BCCHEs; ISSN: 1043-1802
PB American Chemical Society
DT Journal
LA English
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1993:557933 CAPLUS
DN 119:157933
TI Tumor cell retention of antibody Fab fragments is enhanced by an attached
HIV TAT protein-derived peptide
AU Anderson, D. C.; Nichols, E.; Manger, R.; Woodle, D.; Barry, M.;
Fritzberg, A. R.
CS NeoRx Corp., Seattle, WA, 98119, USA
SO Biochemical and Biophysical Research Communications (1993), 194(2), 876-84
CODEN: BBRCA9; ISSN: 0006-291X
DT Journal
LA English

L4 ANSWER 1 OF 164750 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 601 ITDNVGRQR VSPNFPTRFH PSEVIDFGSE KASFRVKVVR TFPDNAKDE
===

HITS AT: 607-609

L4 ANSWER 2 OF 164750 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 101 VRLIRFEERF SRETARRQLS GFDLLIDGSD NFDTRYAAAD AAEEARIPLV
===

HITS AT: 116-118

=> s rrqrr/sqsp

L5 6361 RRQRR/SQSP

=> s rrqrrqrr/sqsp

L6 28 RRQRRQRR/SQSP

=> s rrqrrqrrqrr/sqsp

L7 1 RRQRRQRRQRR/SQSP

=> s 15 or 16 or 17

L8 6361 L5 OR L6 OR L7

=> d 18 kwic

L8 ANSWER 1 OF 6361 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 1 YGRKKRRQRR RGGGENSERF LADIFPAICA FPVRFE
=====

HITS AT: 6-10

=> d 17 kwic

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 1 RRQRRQRRQR R
=====

HITS AT: 1-11

=> d 16 kwic

L6 ANSWER 1 OF 28 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 351 EKKSQVSTLR QALAKRLSPK RFRAKSSWRP EKLELSDLEA RRQRRQRRWE
=====

HITS AT: 391-398

=> d 16 kwic 25-28

L6 ANSWER 25 OF 28 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 901 RQRRQRRQRR QSRGHARCRR HRRAAARRER TQRLAIAGRP ATTRGVEGIS

=====

HITS AT: 903-910

RELATED SEQUENCES AVAILABLE WITH SEQLINK

L6 ANSWER 26 OF 28 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 701 GFTPRRRRQR RQRR

====

HITS AT: 707-714

RELATED SEQUENCES AVAILABLE WITH SEQLINK

L6 ANSWER 27 OF 28 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 1 AAAAGRRQRR QRRRRRRRAA AAR

=====

HITS AT: 6-13

L6 ANSWER 28 OF 28 REGISTRY COPYRIGHT 2004 ACS on STN

SEQ 801 GGTGGDGGHA GVFGNGGDGG CRRVWRRYRR QRWCRRQRRR DRQRRQRRQR

=====

851 RQSRGHARCRR RHRRAARRE RTQRLAIAGR PATTRGVEGI SCSPQMMP

=

HITS AT: 844-851